

## Special Issue

# Fatigue Crack Growth in Metallic Materials

### Message from the Guest Editor

Design against fatigue is fundamental in components submitted to cyclic loads. The damage tolerance approach assumes the presence of small cracks and the propagation life is used to define inspection intervals. The ability to accurately predict fatigue crack growth rates is therefore fundamental. Despite the significant research developed in the last several decades, further work is needed to understand the fundamental mechanisms and to accurately model fatigue crack growth. I invite researchers to submit papers focused on the study of fatigue crack growth in metallic materials. The study of fundamental mechanisms (cyclic plastic deformation, coalescence of microvoids, environmental damage, other brittle mechanisms, etc.) is welcome. The link between these mechanisms, crack tip parameters (linear and non-linear), and fatigue crack growth rates are also welcome. Both original and review papers are welcome.

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### Guest Editor

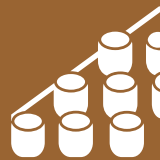
Prof. Dr. Fernando Ventura Antunes

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### Deadline for manuscript submissions

closed (20 July 2022)



## Materials

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### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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### Editor-in-Chief

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